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SCIENCE

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FRIDAY, MAY 20, 1898.

CONTENTS:

MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Prof. J. McKeen Cattell, Garrison-ou-Hudson, N. Y.

A PRECISE CRITERION OF SPECIES. *

A. The General Method. By C. B. DAVEN-PORT, Harvard University.

THE aim of this paper is to propose a definite method of judging whether two closely allied and intergrading groups of organisms belong to distinct species or only to subspecies or varieties.

I. The Present Criteria of Species. practical criteria employed at the present time to distinguish a species from a variety are either one of the two following: 1. A certain considerable degree of dissimilarity in characters—of divergence between the types. 2. A sharp demarcation between the types, their mutual isolation, or, in other words, the absence of intergrading forms. Of these two criteria, that of divergence is most generally employed; yet one influential body-The American Ornithologists' Union-adopts the second in a strict form. Its remarkable rule reads: "Forms known to intergrade, no matter how different, must be treated as subspecies; forms not known to intergrade, no matter how closely related, must be treated as full species." This clear cut rule does not seem however to have been worked in practice. † Nearly all naturalists, indeed, recognize a

*Read before the Boston Society of Natural History, April 6, 1898.

† See, for example, the discussion by Merriam, Allen and Roosevelt in Science, Vol. V., pp. 753, 877 and 879.